

MEMORANDUM FOR THE RECORD:

SUBJECT: Report on New Method of Map Mounting

1. Designing has been completed for a new method of mounting maps for the Agency which is more in keeping with the contemporary style of the Langley building, about one-third cheaper at this time than the method previously used, with a prospect of further savings, easier to install, and a flexibility in hanging with possible additional savings.

2. The design is based upon the utilization of some new products with special properties and the simple use of available inexpensive materials. The base for mounting consists of sheets of foam core, a thin sheet of styrofoam covered by paper on both sides, to which the map is affixed through the application of a new adhesive spray. No framing is required since the map as mounted floats from the wall on hidden, approximately one-inch square, low-grade pine strips the height of the map. These strips are held to the foam core with masonite cement, a strong and readily-applied adhesive. From a decorative point of view, this presents an appearance comparable to that of the colored floating panels in the main quadrangle of the first floor. In the case of larger maps, additional strips of wood may be applied horizontally to correct a slight tendency in bowing not encountered with the smaller maps. Smaller maps may be hung by flexible strip magnets glued onto the pine strips. Larger maps may require the use of the metal magnets available in the Building Supply Office. In all cases the maps can be alternatively hung on plaster walls by the simple device of a screw eye inserted approximately in the middle and on the inside of the vertical strips between which may be strung either a piece of string or a piece of picture wire. Since the mounted maps are so light, there are no complicated suspension problems as is frequently the case with present framing. In this connection, the new L-shaped drapery hook is recommended in lieu of nails because they are generally less damaging to plaster and are more readily removable than nails.

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3. Additionally, this design may be used for functional charts necessary for some offices such as airplane silhouettes, the table of chemical elements, photography, etc. When mounting photographs, the glass would be eliminated with a resultant cost saving.

4. Attached for reference are cost studies under the old and new methods. Tab A shows the volumes over 3 three month periods, average cost per mounting, projected annual volume and average square foot cost, under the present method. Tab B is a cost analysis for the new method. It is noticeable that the costs here are principally for labor. It is strongly believed that labor costs involved in the new method can be reduced through the cooperation of the PRS as its men develop skill in the new procedure. Furthermore, savings can be effected through consolidated work orders which eliminate the full hour charges incident to work of less than one hour. This happens on small orders involving a map or two. It is proposed that the requests from offices be held for a month and then submitted to PRS in a single work order.

5. In addition, the Vocational Rehabilitation Department of the National Orthopaedic and Rehabilitation Hospital, located in Arlington, Virginia, will do the mounting for \$.90 a square foot. This price includes all material and pick-up and delivery.

6. The new method of map mounting has been sufficiently tested to show real advantages both in decor and in savings. This in itself creates a new problem, i. e., the possible overuse once this method becomes generally known and recognized as more desirable than either the present mounting or unmounted maps held on walls with strip magnets. By comparison with previous periods, total costs could very well go up through the increase in the number of requisitions. The resulting clutter could adversely affect the long-term intentions of the Fine Arts Commission. There is then the continuing problem of distinguishing what maps are fundamentally necessary and what maps are to be used for decorative purposes.



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TAB A

WORK ORDERS - MAPS/CHARTS/PICTURESOctober, November, December 1963

<u>Work Order No.</u>	<u>No. of Mountings</u>	<u>Cost</u>
64-1056	1	\$ 47.27
64-1084	1	105.21
64-1125	1	74.72
64-1179	1	34.78
64-1245	4	54.45
64-1246	1	98.05
64-1313	1	25.83
64-1319	1	25.83
64-1323	1	21.44
64-1351	1	60.00
64-1361	1	11.91
64-1412	1	31.48
64-1481	1	35.95
64-1484	1	16.97
64-1500	1	25.77
64-1664	2	79.42
64-1731	1	25.79
64-1757	1	8.93
64-1851	1	12.81
Total	23	\$796.61

Average Cost - \$34.63

WORK ORDERS - MAPS/CHARTS/PICTURES

July, August, September 1964

<u>Work Order No.</u>	<u>No. of Mountings</u>	<u>Cost</u>
65-146	1	\$ 54.77
65-228	1	73.42
65-286	1	32.06
65-427	1	91.77
65-627	1	35.45
65-706	4	86.00
65-745	1	4.59
65-801	1	90.01
65-826	2	169.51
65-828	2	73.37
Total	15	\$ 710.95

Average Cost - \$47.40

Typical Volumes/Average Costs

1963 - Oct., Nov., Dec. 23 mountings/framings \$796.61 - \$34.63 average

1964 - July, Aug., Sept. 15 mountings/framings \$710.95 - \$47.40 average

1964 - Oct., Nov., Dec. 22 mountings/framings \$613.42 - \$27.88 average

1963 Projected - 92 mountings/frames - \$3,186.44

*1964 Projected - 88 mountings/frames - \$2,453.68

*Based on last three months

WORK ORDERS - MAPS/CHARTS/PICTURES

October, November, December 1964

<u>Work Order No.</u>	<u>No. of Mountings</u>	<u>Cost</u>
65-1003	2	\$ 37.13
65-1018	4	109.62
65-1107	6	119.07
65-1234	1	18.56
65-1277	2	56.47
65-1454	1	55.86
65-1492	1	52.27
65-1613	2	54.25
65-1634	1	55.94
65-1656	2	54.25
Total	<u>22</u>	<u>\$613.42</u>

Average Cost - \$27.88

MAP MOUNTING

Present Method - Typical Charges Per Square Feet

<u>Work Order No.</u>	<u>Square Feet</u>	<u>Cost</u>	<u>Cost/Sq. Ft.</u>
65-1656	23.75	\$ 54.25	\$ 2.28
65-1634	32.00	55.94	1.75
65-1613	28.00	54.25	1.94
65-1492	15.00	52.27	3.48
65-1454	28.00	55.86	2.00
65-627	20.00	35.45	1.77

Average Cost Per Square Feet - \$2.20

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TYPICAL COST - STYROCORE METHOD

<u>Work Order No.</u>	<u>No. of Mountings</u>	<u>Square Feet</u>	<u>Cost</u>
65-2030	13	108.3	(See breakdown below)

GSA

<u>Carpenter Shop</u>	
8 hours labor	\$ 37.04
Material	18.00
<u>Paint Shop</u>	
5 hours labor	23.15
<u>Total</u>	<u>\$ 78.19</u>
Admin Service @ 5%	3.16
	<u>\$ 81.29</u>

GSA Cost Per Square Feet	\$1.33
Cost/Sq. Ft. Agency Supplied	<u>.13</u>
Material	
Total Cost	\$1.46